

Having thus, described the invention, what is claimed is:

- 1 1. A vehicle speed display apparatus for a wheeled vehicle having a drive mode
- 2 switch operable to change operation of said vehicle between 2WD mode and 4WD mode,
- 3 said vehicle speed display apparatus comprising:
- 4 a wheel rotational speed sensor for detecting the rotational speed of at
- 5 least one of the wheels of said vehicle,
- 6 a vehicle speed calculator for calculating vehicle speed based on output
- 7 from the wheel rotational speed sensor;
- 8 a speed display mechanism for displaying the vehicle speed calculated
- 9 by the vehicle speed calculator, and
- 10 a drive mode sensor for detecting whether the vehicle is traveling in the
- 11 2WD mode or in the 4WD mode,
- 12 wherein the vehicle speed calculator comprises a first vehicle
- 13 speed calculating unit for calculating the vehicle speed based on the
- 14 output from the wheel rotational speed sensor and a first predetermined

15 condition, and a second vehicle speed calculating unit for calculating  
16 the vehicle speed based on the output from the wheel rotational speed  
17 sensor and a second predetermined condition, and  
18 wherein the display mechanism displays the vehicle speed  
19 calculated by the first vehicle speed calculating unit or the second  
20 vehicle speed calculating unit, based on input from the drive mode  
21 sensor.

1 2. A vehicle speed display apparatus according to Claim 1, wherein the  
2 first vehicle speed calculating unit calculates the vehicle speed by using the output from  
3 the wheel rotational speed sensor and a first correction coefficient, and the second  
4 vehicle speed calculating unit calculates the vehicle speed using the output from the  
5 wheel rotational speed sensor and a second correction coefficient, and wherein the first  
6 correction coefficient is larger than the second correction coefficient.

1 3. A vehicle speed display apparatus according to Claim 1, wherein the drive mode

2 sensor detects whether the vehicle is traveling in the 2WD mode or in the 4WD mode  
3 based on the position of the drive mode switch.

1 4. A vehicle speed display apparatus for a wheeled vehicle having a drive  
2 mode switch operable to change operation of said vehicle between 2WD mode and 4WD  
3 mode,

4 said vehicle speed display apparatus comprising:

5 a drive mode sensor for detecting whether the vehicle is traveling in the  
6 2WD mode or in the 4WD mode;

7 a wheel rotational speed sensor for detecting the rotational speed of at  
8 least one of the wheels of said vehicle,

9 a vehicle speed calculator for calculating a sensed vehicle speed based  
10 on output from the wheel rotational speed sensor, and for correcting the sensed  
11 vehicle speed using a correction coefficient;

12 a speed display mechanism for displaying the corrected vehicle speed  
13 calculated by the vehicle speed calculator.

1           5. The vehicle speed display apparatus of claim 4, wherein the correction  
2   coefficient is selected based on input from the drive mode sensor.

1           6.       The vehicle speed display apparatus of claim 1, wherein:  
2           the display mechanism is operable to display the vehicle speed calculated by the  
3   vehicle speed calculator.

1           7.       A method of displaying vehicle speed on a wheeled vehicle which is  
2   switchable between 2WD and 4WD, said method comprising the steps of:

3           a) generating an uncorrected vehicle speed based on a signal from a vehicle  
4   speed sensor;

5           b) sensing whether the vehicle is in 2WD mode or in 4WD mode using a drive  
6   mode sensor;

7           c) adjusting the uncorrected vehicle speed using a correction coefficient to  
8   generate a corrected vehicle speed; and

9           d) displaying the corrected vehicle speed on a speed display unit.

- 1            8. The method of claim 7, wherein the correction coefficient is selected
- 2    corresponding to the sensed drive mode.